

# General Education Program Requirements

## I. Introduction

The General Education Program at Central Michigan University provides students with a common set of academic skills, referred to as Competencies, as well as exposure to a broad knowledge base, referred to as the University Program.

Courses in the General Education Program are continuous with the rest of the university curriculum but present material in a manner that links knowledge and skills with the 21st-century lives students will lead after they graduate.

Graduates of Central Michigan University demonstrate an understanding of the basic forces, ideas, and values that shape the world. They are aware of the structure of organized human knowledge—the arts and humanities, natural and social sciences. They can organize and access a broad knowledge base relevant to the modern world. They are skilled in working with others, including those of diverse ethnic and cultural backgrounds, and in thinking reflectively about themselves as individuals and as members of society. Graduates value rational inquiry, honesty in scholarship, and life-long learning.

### Specific Student Learning Objectives

The General Education Program is intended to assist students in attaining the specific learning outcomes listed below:

- Demonstrate undergraduate level competence in written communication, oral communication, mathematics, and quantitative reasoning.
- Examine and conceptualize contemporary problems through the application of procedures common in the natural sciences, social sciences, and humanities.
- Display sensitivity to the influence of cultural values and diversity on human functioning.

## II. The Competencies

General Education Competencies are important skills that students expand during their course of study at Central Michigan University. Graduates are expected to demonstrate adeptness in the areas of Writing, Oral English, and Mathematics/Quantitative Reasoning. The requirements under each of these competencies were developed to aid students in mastering skills deemed necessary to function as constructive, concerned, and thoughtful persons. See *Additional Guidelines* at the end of this section. Students with transfer credit should pay particular attention to material presented in Section IV: *General Education Program Requirements for Students with Transfer Credit*.

### A. Writing Competency (18-21 hours)

The Writing Competency requirement develops the ability to write clearly. Writing can be a tool for organizing and clarifying one's thoughts. Effective written expression is often necessary to contribute to ongoing debates or discussions in personal, civic, and vocational spheres. Students prepare a variety of public texts by applying knowledge of composing processes, rhetorical strategies, and textual conventions. Students must satisfy the *Freshman Composition*, *Intermediate Composition*, and *Writing Intensive* requirements as detailed below.

### 1. Freshman Composition (3-6 hours)

Students learn how to use composition techniques, strategies for persuasive writing, and modern writing conventions and practices to prepare a variety of papers.

**Timeline:** Students should enroll in a Freshman Composition course in their first or second semester, and continue to enroll until successfully completed **OR** successfully complete one of the examinations listed in Item c by the end of the first semester.

**Requirement:** Students satisfy the requirement for freshman composition during their first year of study at CMU. Student ACT or SAT scores and high school GPA can help shape how a student chooses to meet the Freshman Composition requirement. Most students may satisfy the Freshman Composition requirement in one of three ways:

a. **Earning a grade of C (2.0) or better in ENG 101 Freshman Composition.** Students should enroll in ENG 101 Freshman Composition in either their first or second semester at CMU and continue to enroll in subsequent semesters until the requirement is satisfied.

**OR**

b. **Earning a grade of C (2.0) or better in ENG 103 First Year Writing and ENG 193 Writing Workshop.** Students should enroll in ENG 103 in either their first or second semester at CMU and continue to enroll in subsequent semesters until the requirement is satisfied.

**OR**

c. **Successful completion of a College Level Examination Program examination or an Advanced Placement Examination designated as meeting the Freshman Composition requirement by the end of their first semester at CMU or successful completion of the International Baccalaureate English Language Examination.** Specific information on these examinations, as well as information on the minimum scores required for Freshman Composition credit, can be obtained from the Computer-Based Testing Center ([https://www.cmich.edu/office\\_provost/AcademicAffairs/CBTC/Pages/default.aspx](https://www.cmich.edu/office_provost/AcademicAffairs/CBTC/Pages/default.aspx)) or call 989-774-1092.

**Freshman Composition Requirement for Non-native Speakers of English:** Students for whom English is not their native language may fulfill the Freshman Composition Requirement by earning a grade of C (2.0) or better in ELI 198 American Language for International Students: Written Component.

**Freshman Composition Requirement for Students in the Honors Program:** Honors students may fulfill the Freshman Composition Requirement by earning a grade of C (2.0) or better in ENG 101H.

#### Freshman Composition Courses:

ELI 198 - American Language for International Students: Writing Component 3(3-0)

ENG 101 - Freshman Composition 3(3-0)

ENG 103 - First Year Writing 3(3-0)

ENG 193 - Writing Workshop 1(Spec)

### 2. Intermediate Composition (3 hours)

Students acquire writing skills necessary for writing in upper-level major courses and beyond.

**Timeline:** ENG 201 may be taken only after meeting the Freshman Composition Requirement and must be taken before completing 56 hours of coursework.

**Requirement:** This requirement is met by earning a grade of C or better in ENG 201 *Intermediate Composition*.

ENG 201 - Intermediate Composition 3(3-0)

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### 3. Writing Intensive Requirement (WI) (12 hours)

Writing Intensive courses in the University Program help students to learn course content, increase writing fluency, and to help prepare for more formal writing assignments. The purpose of Writing Intensive courses outside of the University Program is to provide practice with the language conventions, writing styles, and formats within a specific discipline or profession.

**Timeline:** Two of the four courses of the Writing Intensive requirement must be taken before completing 56 hours of coursework. The Writing Intensive requirement must be completely met prior to graduation. *Transfer Students, please see C. Additional Guidelines for Students with Transfer Credit, Item 3, at the end of this section.*

**Requirement:** Students are required to complete, with a grade of C (2.0) or better, four courses (12 credits) that have a Writing Intensive (WI) designation.

At least 6 hours of Writing Intensive coursework must be in the University Program, and 6 hours of Writing Intensive coursework may be fulfilled by courses outside of the University Program.

#### Writing Intensive Courses:

The following two groups of courses have been approved as Writing Intensive (check the Course Search and Registration for course sections indicated with a "WI" next to the course number). Some of these courses are also approved as UP Courses and are listed at the end of each subgroup for cross reference purposes.

#### Writing Intensive Courses

*The following courses are always offered as Writing Intensive:*

ANT/BIO/CHM 250WI - Water as Life, Death, Power 3(2-2)  
 ANT 265WI - Medicine, Health and Illness: Why Culture Matters 3(3-0)  
 ATR 390WI - Seminar in Athletic Training 3(3-0)  
 ATR 478WI - Research Methods in Athletic Training 3(3-0)  
 BCA 211WI - Introduction to Writing for Electronic Media 3(3-0)  
 BCA 311WI - Electronic Media Copywriting 3(3-0)  
 BCA 318WI - Electronic Media News Writing 3(3-0)  
 BCA 411WI - Long-Form Electronic Media Writing 3(3-0)  
 BCA 503WI - Critiquing Mass Media 3(3-0)  
 BCA 506WI - Series Script Writing For Visual Media 3(3-0)  
 BCA 508WI - Screenwriting for Cinematic Narrative 3(3-0)  
 BCA 516WI - Electronic Media Management 3(3-0)  
 BCA 540WI - Recording Industry & Business 3(3-0)  
 BIO/ANT/CHM 250WI - Water as Life, Death, Power 3(2-2)  
 BIO 403WI - Undergraduate Research 3-4(Spec)  
 BIO 567WI - Biogeochemistry 3(3-0)  
 BIS 101WI - Essential Business Communications Skills 3(3-0)  
 BIS 260WI - Global Business Communication 3(3-0)  
 CSD 432WI - Clinical Communication in Speech-Language Pathology 3(3-0)  
 CGL 496WI - Seminar in Cultural and Global Studies 3(3-0)  
 CHM/ANT/BIO 250WI - Water as Life, Death, Power 3(2-2)  
 CHM 491WI - Undergraduate Research 1-3(Spec)  
 COM 301WI - Survey of Research in Communication 3(3-0)  
 EDU 380WI - Interdisciplinary Methods and Pre-Student Teaching 10(Spec)  
 EGR 489WI - Senior Design I 3(2-2)  
 EGR 499WI - Senior Design II 3(1-4)  
 ENG 143WI - Laughing Matters: Comedy and Satire 3(3-0)  
 ENG 211WI - Introduction to English Education 3(3-0)  
 ENG 234WI - Introduction to Literary Analysis 3(3-0)  
 ENG 294WI - Introduction to Creative Writing 3(3-0)  
 ENG 301WI - Nonfiction Writing 3(3-0)  
 ENG 303WI - Technical Writing 3(3-0)  
 ENG 315WI - Teaching Writing in Elementary and Middle Schools 4(3-1)  
 ENG 381WI - Children's Literature 3(3-0)  
 ENG 391WI - Creative Writing: Fiction 3(3-0)  
 ENG 392WI - Creative Writing: Poetry 3(3-0)  
 ENG 402WI - Argumentation and Expository Writing 3(3-0)

ENG 435WI - Senior Seminar: Advanced Literary Analysis 3(3-0)  
 ENG 491WI - Advanced Fiction Writing 3-6(3-0)  
 ENG 510WI - Writing Center Practicum 1-3(Spec)  
 ENS 503WI - Environmental Modeling 4(2-4)  
 ENV 400WI - Environmental Studies Capstone 3(3-0)  
 FNS 577WI - Advanced Topics in Nutrition: Eating Disorders 3(3-0)  
 FRN 321WI - France Today 3(3-0)  
 FRN 423WI - France at War in the 20th Century 3(3-0)  
 GEL 380WI - Hydrogeology 3(2-3)  
 GEL 406WI - Senior Thesis 3(Spec)  
 GEO 450WI - Geography Capstone 3(3-0)  
 HON 201WI - Honors Studies in Human Events and Ideas: First Year Seminar 3(3-0)  
 HON 202WI - Honors Studies in the Arts: First Year Seminar 3(3-0)  
 HON 203WI - Honors Descriptive Science: First Year Seminar 3(3-0)  
 HON 204WI - Honors Quantitative and Mathematical Science: First Year Seminar 3(3-0)  
 HON 205WI - Honors Behavioral Sciences: First Year Seminar 3(3-0)  
 HON 206WI - Honors Studies in Social Structures: First Year Seminar 3(3-0)  
 HON 207WI - Honors Studies in Global Cultures: First Year Seminar 3(3-0)  
 HON 208WI - Honors Studies in Racism and Diversity in the U.S.: First Year Seminar 3(3-0)  
 HPS 101WI - Introduction to the Health Professions 3(3-0)  
 HPS 350WI - Readiness: College-to-Career Transition 3(3-0)  
 HSC 203WI - Leadership for the Health Professions 3(3-0)  
 HPS 300WI - Introduction to Baccalaureate Nursing Practice 4(4-0)  
 HSC 315WI - Critical Analysis of Contemporary Issues in Exercises and Health Science 3(3-0)  
 HSC 419WI - Community Health Assessment, Planning and Program Evaluation 3(3-0)  
 HSC 538WI - Development of Proposals and Reports in Health Administration 3(3-0)  
 HST 100WI - Reconstructing the Past: An Introduction to the Study of History 3(3-0)  
 HST 210WI - United States History through Michigan Eyes 3(3-0)  
 HST 222WI - Cherokees, Slaves and the Struggle for Racial Justice 3(3-0)  
 HST 496WI - Research Seminar 3(3-0)  
 IET 324WI - Product Design and Development 3(2-2)  
 IND 332WI - Human Shelter and Environment 3(3-0)  
 IND 339WI - Interior Design Studio III: Special User Groups 3(1-4)  
 IND 432WI - Seminar in Interior Design 3(3-0)  
 JRN 107WI - Literary Journalism 3(3-0)  
 JRN 202WI - Writing for the Mass Media 3(3-0)  
 JRN 205WI - Shaping the Media 3(3-0)  
 JRN 312WI - Reporting 3(3-0)  
 JRN 348WI - Business Journalism 3(3-0)  
 JRN 430WI - Magazine and Feature Writing 3(3-0)  
 JRN 450WI - Public Relations Writing 3(3-0)  
 JRN 516WI - Public Affairs Reporting 3(3-0)  
 JRN 551WI - Case Studies in Public Relations 3(3-0)  
 MET 460WI - Global Climate Dynamics 3(3-0)  
 MET 480WI - Atmospheric Modeling 3(2-2)  
 MUS 314WI - History of Symphonic Literature 3(3-0)  
 PAD 523WI - Fundamentals of Grand Writing and Management 3(3-0)  
 PHL 490WI - Senior Seminar in Philosophy 3(3-0)  
 PHY 491WI - Senior Physics Project 3(Spec)  
 PSC 571WI - The Military and Politics 3(3-0)  
 REL 501WI - Seminar in the Study of Religion 3(3-0)  
 REL 505WI - Research Seminar 3(3-0)  
 RPL 580WI - Programming for Therapeutic Recreation 3(3-0)  
 SPE 550WI - Teaching Diverse Students in Educational Settings 3(3-0)  
 SPN 405WI - Modern and Contemporary Spanish Novel 3(3-0)  
 SPN 415WI - Spanish-American Novel 3(3-0)  
 SPN 431WI - Advanced Writing in Spanish 3(3-0)  
 SWK 331WI - Social Work Generalist Practice III 3(3-0)  
 TAI 586WI - Playwriting 3(3-0)

**(See courses approved for WI Sections, next page)**

**Approved for Writing Intensive Sections**

*The following courses are approved for Writing Intensive; check the Course Registration for WI sections:*

- ANT 170 - Cultural Anthropology 3(3-0)  
 ANT 459 - Anthropology of Religion 3(3-0)  
 ANT 465 - Capstone Experience in Anthropology 3(3-0)  
 ART 126 - Introduction to the Visual Arts 3(3-0)  
 ART 380 - Greek Art and Architecture 3(3-0)  
 ART 381 - Early Christian and Byzantine Art 3(3-0)  
 ART 485 - Art after 1945 3(3-0)  
 ART 580 - Seminar in Ancient/Medieval Art History 3-6(3-0)  
 ART 581 - Seminar in Early Modern Art History 3-6(3-0)  
 ART 582 - Seminar in Modern and Contemporary Art History 3-6(3-0)  
 ART 586 - Special Topics in Art History 3-9(3-0)  
 BIO 240 - Conservation of Natural Resources 3(3-0)  
 BIO 325 - Biotechnology 3(1-5)  
 BIO 338 - Human Ecology 3(3-0)  
 BIO 545 - Molecular Genetics 3(3-0)  
 BIO 560 - Avian Ecology 3(2-3)  
 BLR 202 - Legal Environment of Business 3(3-0)  
 BLR 222 - The Search for Racial Justice through Law 3(3-0)  
 BLR 235 - Business Law 3(3-0)  
 BLR 325 - Women and the Law 3(3-0)  
 BLR 330 - Real Estate Law 3(3-0)  
 COM 277 - Video Games and Human Communication 3(3-0)  
 COM 468 - Advanced Interpersonal Communication 3(3-0)  
 EDU 107 - Introduction to Teaching 3(3-1)  
 EDU 290 - Technology in Education 3(3-0)  
 ENG 134 - Introduction to Literature 3(3-0)  
 ENG 141 - Comics, Graphic Novels, and Other Illustrated Texts 3(3-0)  
 ENG 142 - Literary Interpretation of Sport 3(3-0)  
 ENG 144 - Monsters and Their Meanings 3(3-0)  
 ENG 145 - Bestsellers and Prize Winners 3(3-0)  
 ENG 175 - The Nature of Language 3(3-0)  
 ENG 235 - English Literature: Beginning to Romantic Period 3(3-0)  
 ENG 236 - British Literature 3(3-0)  
 ENG 251 - American Literature: Colonial Through the Romantic Period 3(3-0)  
 ENG 252 - American Literature: Realistic Period to the Present 3(3-0)  
 ENG 261 - Masterpieces of Ancient Literature 3(3-0)  
 ENG 262 - European Literatures 3(3-0)  
 ENG 323 - Fantasy and Science Fiction 3(3-0)  
 ENG 327/WGS 327 - Women Writers: Gender, Sexuality, and Literature 3(3-0)  
 ENG 349 - Shakespeare 3(3-0)  
 ENG 492 - Advanced Poetry Writing 3-6(3-0)  
 ENG 493 - Creative Nonfiction 3-6(3-0)  
 ENG 514 - Language and Media Discourse 3(3-0)  
 ENG 539 - Seminar in Major Nonfiction Writers 3-9(Spec)  
 FMD 250 - History of Western Dress 3(3-0)  
 FMD 252 - Dress and Culture 3(3-0)  
 FNS 370 - Nutrition 3(3-0)  
 FRN 201 - Intermediate French I 4(4-0)  
 FRN 202 - Intermediate French II 4(4-0)  
 FRN 325 - French Literature in Translation 3(3-0)  
 FRN 333 - Francophone Literature and Culture 3(3-0)  
 FRN 340 - Foreigners in France in the 20th and 21st Centuries 3(3-0)  
 FRN 353 - Youth Literature in French 3(3-0)  
 FRN 360 - Literature and Culture of Quebec 3(3-0)  
 FRN 375 - French/English Translation 3(3-0)  
 FRN 391 - Topics in French and Francophone Cultures 1-12(Spec)  
 GEL 370 - Structural Geology 3(2-3)  
 GEO 121 - Human Geography and Globalization 3(3-0)  
 GEO 400 - Geographic Education 3(2-2)  
 GEO 531 - Integrated Land Use Planning 3(3-0)  
 GER 325 - Modern German Literature in Translation 3(3-0)  
 GER 341 - German Cultural History I 3(3-0)  
 GER 342 - German Cultural History II 3(3-0)  
 GER 343 - Survey of German Literature I 3(3-0)  
 GER 344 - Survey of German Literature II 3(3-0)  
 GER 345 - Survey of German Literature III 3(3-0)  
 GER 347 - German Cultural History III 3(3-0)  
 GER 570 - Advanced Grammar and Composition 3(3-0)  
 HDF 100 - Lifespan Development 3(3-0)  
 HDF 247 - Introduction to Gerontology 3(3-0)  
 HDF 308 - Theories of Child and Adolescent Development 3(3-0)  
 HON 499 - Senior Project 3-6(Spec)  
 HST 101 - The Development of Western Civilization: From Ancient Times to 1700 A.D. 3(3-0)  
 HST 102 - The Development of Western Civilization: From 1700 to the Present 3(3-0)  
 HST 106 - Twentieth Century: Western World Issues 3(3-0)  
 HST 110 - The American Experience 3(3-0)  
 HST 111 - The Quest for Liberty: The United States to 1865 3(3-0)  
 HST 112 - The Struggle for Equality: The United States, 1865-Present 3(3-0)  
 HST 120 - Unlikely Princesses: Women of World History 3(3-0)  
 HST 163 - The Latin American Experience 3(3-0)  
 HST 168 - Modern East Asia 3(3-0)  
 HST 176 - The African Experience 3(3-0)  
 HST 200 - Medieval Civilization 3(3-0)  
 HST 221 - Growing Up in America 3(3-0)  
 HST 236 - Babylon and Beyond: Ancient Civilizations of the Near/Middle East 3(3-0)  
 HST 237 - Baghdad and Beyond: The Middle East from 600 C.E. 3(3-0)  
 HST 238 - Ancient Greece and Rome 3(3-0)  
 HST 303 - The American Revolution 3(3-0)  
 HST 320 - United States Social History to 1865 3(3-0)  
 HST 321 - United States Social History since 1865 3(3-0)  
 HST 323 - History of Native Americans 3(3-0)  
 HST 324 - "Death is Better than Slavery": African American History to 1877 3(3-0)  
 HST 325 - "By Any Means Necessary": African American History, 1877-Present 3(3-0)  
 HST 326/WGS 328 - Women in America 3(3-0)  
 HST 330 - "We the People": U.S. Constitutional History 3(3-0)  
 HST 340 - The High Middle Ages 3(3-0)  
 HST 341 - Renaissance and Reformation 3(3-0)  
 HST 361/REL 361 - Sinners and Saints of Colonial Latin America 3(3-0)  
 HST 375 - Continuity and Change in Contemporary Africa, 1960s to the Present 3(3-0)  
 HST 379/HUM 340 - Race, Class and Power: South Africa in the 20th Century 3(3-0)  
 HST 505 - Tudor England 3(3-0)  
 HST 511 - Colonial British America 3(3-0)  
 HST 513 - Era of the Early Republic, 1789-1825 3(3-0)  
 HST 514 - Democracy, Expansion, and Reform in America, 1824-1848 3(3-0)  
 HST 515 - Civil War and Reconstruction 3(3-0)  
 HST 516 - Emergence of Modern America, 1877-1920 3(3-0)  
 HST 518 - African Americans and the Law: From Slavery to Civil Rights 3(3-0)  
 HST 522 - Indians of the Great Lakes Region 3(3-0)  
 HST 525 - The Industrialization of America 3(3-0)  
 HST 535 - The Middle East in the Modern Era 3(3-0)  
 HST 537 - The Age of Cicero 3(3-0)  
 HST 543 - Napoleon 3(3-0)  
 HST 558 - Europe, 1914-1945 3(3-0)  
 HST 576 - Colonialism in Africa, 1880s-1960s 3(3-0)  
 HST 580 - Public History 3(3-0)  
 HST 585 - Oral History 3(3-0)  
 HUM 303 - Law and Society: Great Trials 3(3-0)  
 HUM 340/HST 379 - Race, Class and Power: South Africa in the 20th Century 3(3-0)  
 JRN 207 - Video Games and Mass Communication 3(3-0)  
 JRN 372 - The Asian Media and Cross-cultural Mass Communication 3(3-0)  
 JRN 380 - Racial and Cultural Diversity: Mass Media's Role 3(3-0)  
 MKT 300 - Introduction to Marketing 3(3-0)

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MUS 114 - Listening Experience 3(3-0)  
 MUS 213 - Jazz: An American Art Form 3(3-0)  
 MUS 310 - Music and the Mind 3(3-0)  
 MUS 311 - Historical Survey of Music II 3(3-0)  
 MUS 313 - Musics of the World 3(3-0)  
 PAD 210 - Introduction to Public Administration 3(3-0)  
 PAD 211 - Introduction to Nonprofit Leadership 3(3-0)  
 PAD 411 - Public Sector Human Resources 3(3-0)  
 PAD 412 - Nonprofit Administration 3(3-0)  
 PAD 413 - Organizational Leadership and Behavior 3(3-0)  
 PHL 100 - Introduction to Philosophy 3(3-0)  
 PHL 118 - Moral Problems 3(3-0)  
 PHL 218 - Ethical Theories 3(3-0)  
 PHL 230 - Philosophy of Religion 3(3-0)  
 PHL 313 - Justice, Human Rights, and the Philosophy of Nonviolence 3(3-0)  
 PHL 335 - Philosophy of Psychology 3(3-0)  
 PHL 397 - Special Topics 1-12(Spec)  
 PHL 404 - Twentieth Century Philosophy 3(3-0)  
 PHL 418 - Advanced Moral Philosophy 3(3-0)  
 PHL 422 - Political and Social Philosophy 3(3-0)  
 PHL 480 - Philosophy of the Arts 3(3-0)  
 PHL 497 - Special Topics in Philosophy 1-12(Spec)  
 PSC 100 - Introduction to Political Science 3(3-0)  
 PSC 101 - Political Behavior 3(3-0)  
 PSC 105 - Introduction to American Government and Politics 3(3-0)  
 PSC 150 - Introduction to International Relations 3(3-0)  
 PSC 261 - State and Local Government 3(3-0)  
 PSC 347 - Europe and the European Union 3(3-0)  
 PSC 381 - Slavery, Tyranny, Democracy: Classical Origins of Modern Ideas 3(3-0)  
 PSC 515 - Comparative Public Policy 3(3-0)  
 PSY 285 - Research Methods 3(3-0)  
 PSY 385 - Applications of Research Methods 3(3-0)  
 REL 101 - World Religions: An Introduction to the Study of Religion 3(3-0)  
 REL 130 - Religion in America 3(3-0)  
 REL 140 - African-American Religion 3(3-0)  
 REL 207/WGS 207 - Women in Religion 3(3-0)  
 REL 235 - Religion and Social Issues 3(3-0)  
 REL 240 - African-American Religion 3(3-0)  
 REL 250 - Creation, Conquest, and Chaos: Introduction to the Old Testament 3(3-0)  
 REL 260 - From Gospel to Apocalypse: Introduction to the New Testament 3(3-0)  
 REL 302/WGS 302 - Witchcraft, Magic, and Occult Phenomena 3(3-0)  
 REL 303/WGS 303 - Goddesses 3(3-0)  
 REL 313 - Christianity 3(3-0)  
 REL 315 - Judaism 3(3-0)  
 REL 334 - Death and Dying 3(3-0)  
 REL 361/HST 361 - Sinners and Saints of Colonial Latin America 3(3-0)  
 RPL 358 - Foundations of Outdoor and Environmental Education 3(3-0)  
 RPL 430 - Planning Recreation Programs and Events 3(3-0)  
 RPL 470 - Park and Natural Resource Management 3(3-0)  
 RPL 545 - Marketing of Leisure Services 3(3-0)  
 SOC 223 - Urban Structures and Change 3(3-0)  
 SPE 210 - History of Disability 3(3-0)  
 SPE 270 - Disability and Society 3(3-0)  
 SPN 201 - Intermediate Spanish I 4(4-0)  
 SPN 202 - Intermediate Spanish II 3(3-0)  
 SPN 214 - Intermediate Conversation and Composition 3(3-0)  
 SPN 376 - Culture and Civilization of Spain 3(3-0)  
 SPN 377 - Culture and Civilization of Latin America 3(3-0)  
 SWK 450 - Social Welfare Policies and Services II 3(3-0)  
 WGS 100 - How Gender Affects Our Lives 3(3-0)  
 WGS 207/REL 207 - Women in Religion 3(3-0)  
 WGS 302/REL 302 - Witchcraft, Magic, and Occult Phenomena 3(3-0)  
 WGS 303/REL 303 - Goddesses 3(3-0)  
 WGS 327/ENG 327 - Women Writers: Gender, Sexuality, and Literature 3(3-0)  
 WGS 328/HST 326 - Women in America 3(3-0)

## B. Mathematics and Quantitative Reasoning Competency (6 hours)

The Mathematics/Quantitative Reasoning requirement develops the ability to understand and solve quantitative problems that arise in a variety of contexts.

### 1. Mathematics Requirement (3 hours)

Students learn tools for understanding patterns that appear in the sciences, as well as the humanities. Students apply algebra to solve quantitative problems.

**Timeline:** The Mathematics Requirement must be met before students have completed 56 hours of coursework.

**Requirement:** Student ACT or SAT scores, as well as past coursework in mathematics, can help students select the first course in mathematics. However, **neither MTH 151 nor MTH 152 may be used to satisfy the Mathematics Requirement, and a single course may not be used to meet both the Mathematics and Quantitative Reasoning Requirements.** A student may satisfy the Mathematics Requirement in one of two ways:

- Earning a grade of C (2.0) or better in ANY mathematics (MTH) or statistics (STA) course numbered 105 or above (excluding MTH 151 or MTH 152), OR
- Successfully completing the Mathematics Competency Examination or any CLEP or AP examination approved for credit in a mathematics (MTH) or statistics (STA) course numbered higher than MTH 105 (excluding MTH 151 or MTH 152).

#### Mathematics Competency Examination

Students seeking to satisfy the Mathematics Requirement by successfully completing the Mathematics Competency Examination must pass the exam by the time they have completed 56 hours of academic credit at CMU. Students who transfer more than 36 credit hours to CMU may take the competency examination only during their first semester at CMU.

The Mathematics Competency Examination consists of 40 questions. The Mathematics Requirement is satisfied by an overall score of at least 80% on the test. Students will be allowed two retests. Students who fail to obtain an overall score of at least 80% are required to meet the Mathematics Requirement as previously described. The Mathematics Competency Examination is administered by the Computer Based Testing Center ([https://www.cmich.edu/office\\_provost/AcademicAffairs/CBTC/Pages/default.aspx](https://www.cmich.edu/office_provost/AcademicAffairs/CBTC/Pages/default.aspx)) or call 989-774-1092.

#### Mathematics Competency Courses

Some of these courses are also approved for UP Subgroup II-B.

MTH 105 - Intermediate Algebra 3(3-0)  
 MTH 107 - College Algebra 3(3-0)  
 MTH 109 - Plane Trigonometry 3(3-0)  
 MTH 113 - Mathematics: A Modeling Approach 3(3-0)  
 MTH 130 - Pre-Calculus Mathematics 4(4-0)  
 MTH 132 - Calculus I 4(4-0)  
 MTH 133 - Calculus II 4(4-0)  
 MTH 175 - Discrete Mathematics 3(3-0)  
 MTH 217 - Business Calculus 4(4-0)  
 MTH 223 - Linear Algebra and Matrix Theory 3(3-0)  
 MTH 232 - Linear Algebra and Differential Equations 3(3-0)  
 MTH 233 - Calculus III 4(4-0)  
 MTH 256 - Algebraic Modeling and Measurement for K-8 Math Teachers 3(3-0)  
 MTH 261 - Algebra for Secondary Teachers 3(3-0)  
 MTH 278 - Mathematical Models 3(3-0)  
 MTH 296 - Special Topics in Mathematics 1-6(Spec)  
 MTH 332 - Introduction to Mathematical Proof 3(3-0)  
 MTH 334 - Differential Equations 3(3-0)  
 MTH 335 - Mathematical Biology 3(3-0)  
 MTH 341 - College Geometry 3(3-0)  
 MTH 351 - Geometry for K-8 Mathematics Teachers 3(3-0)  
 MTH 361 - Field Experience in Teaching Mathematics 1(Spec)  
 MTH 362 - Problem-Based and Technology-Enhanced Geometry for Secondary Teachers 3(3-0)

MTH 363 - Problem-Based Probability and Statistics for Secondary Teachers 3(3-0)  
 MTH 375 - Discrete Structures 3(3-0)  
 MTH 397 - Independent Study 1-6(Spec)  
 MTH 434 - Methods of Applied Mathematics 3(3-0)  
 MTH 438 - Numerical Analysis I 3(3-0)  
 MTH 439 - Numerical Analysis II 3(3-0)  
 MTH 444 - Introduction to Differential Geometry 3(3-0)  
 MTH 461 - Teaching of Secondary School Mathematics 4(4-0)  
 STA 282QR - Introduction to Statistics 3(3-0)  
 STA 382QR - Elementary Statistical Analysis 3(3-0)  
 STA 392 - Probability and Statistics for Engineers 3(3-0)

## 2. Quantitative Reasoning Requirement (3 hours)

Quantitative reasoning involves the application of mathematics in applied contexts. The overarching goal is to establish a foundation for effective quantitative reasoning and problem-solving strategies that are useful for completing a program of study and relevant to the life activities of most people.

**Timeline:** The Quantitative Reasoning requirement must be met prior to graduation.

**Requirement:** Students satisfy this requirement by completing an approved Quantitative Reasoning course with a grade of C (2.0) or better. All approved courses have a "QR" designation in the Bulletin. **A single course may not be used to meet both the Quantitative Reasoning and Mathematics Requirements.**

### Quantitative Reasoning Courses:

The following courses have been approved for offering as Quantitative Reasoning:

BCA 265QR - Understanding Media Measurement 3(3-0)  
 BIO 105QR - Introductory Quantitative Biology 3(2-2)  
 BUS 300QR - Applied Business Statistics 3(3-0)  
 CHM 211QR - Quantitative Analysis 4(3-5)  
 CHM 265QR - Chemical Physical Science for Elementary Teachers 2(1-3)  
 ECO 222QR - Behavioral Economics 3(3-0)  
 EGR 190QR - Digital Circuits 3(3-0)  
 ENS 101QR - Of Earth and Us: Introduction to Environmental Science 3(2-2)  
 ENV 210QR - Environmental Resource Use 3(3-0)  
 FMD 355QR - Textile Analysis 3(2-2)  
 GEL 130QR - Earth Processes 3(2-2)  
 GEO 120QR - Environmental Geography 3(3-0)  
 GEO 203QR - Introduction to Geographic Information Science 3(2-2)  
 HDF 214QR - Consumer Economics 3(3-0)  
 HSC 106QR - Healthy Lifestyles 3(2-1)  
 IET 181QR - Alternative Energy Analysis 3(2-2)  
 IET 223QR - Lean Six Sigma for Process Improvement 3(3-0)  
 ITC 101QR - Reasoning Through Computer Visualization 3(2-2)  
 JRN 203QR - Information Gathering for the Mass Media 3(3-0)  
 MET 101QR - Our Changing Climate 3(2-2)  
 MTH 103QR - Quantitative Reasoning for Informed Citizens 3(3-0)  
 PAD 380QR - Public Sector Research Methods 3(3-0)  
 PES 186QR - Principles of Physical Fitness for Lifelong Wellness 3(3-0)  
 PES 218QR - Sport Analytics 3(3-0)  
 PHL 145QR - Reasoning and Probability 3(3-0)  
 PHS 265QR - Quantitative Physical Science 2(1-3)  
 PHY 105QR - Energy and Society: A Quantitative Perspective 3(3-0)  
 PHY 130QR - College Physics I 4(4-0)  
 PHY 145QR - University Physics I 4(4-0)  
 PHY 247 QR - Introduction to Modern Physics 3(3-0)  
 PSC 180QR - Polls, Politics and Policy 3(3-0)  
 PSC 280QR - Introduction to Empirical Methods of Political Research 3(3-0)  
 PSY 211QR - Introduction to Psychological Statistics 3(3-0)  
 RPL 508QR - Budgeting & Funding for Leisure Service Agencies 3(3-0)  
 SEP 300QR - Sustainability and Environmental Policy 3(3-0)  
 SOC 150QR/SWK 150QR - Public Opinion, Social Sciences, and Social Welfare 3(3-0)

STA 103QR - Evidence-based Problem Solving in Modern Society 3(3-0)  
 STA 282QR - Introduction to Statistics 3(3-0)  
 STA 382QR - Elementary Statistical Analysis 3(3-0)  
 SWK 150QR/SOC 150QR - Public Opinion, Social Sciences, and Social Welfare 3(3-0)

## C. Oral English Competency (3 hours)

The Oral English Competency develops the ability to interpret, compose, and present information in oral form to specific audiences.

**Timeline:** The Oral English Competency must be met before students complete 56 hours of coursework. Because of this timeline, students seeking to satisfy this requirement by successfully completing the Oral English Competency Examination must pass the exam by the time they have completed 56 hours of academic credit at CMU. Students who transfer 36 or more credit hours to CMU may take the Oral English Competency Examination prior to the conclusion of their first year of study at CMU.

**Requirement:** Past coursework in debate, speech, and oral communication can help to determine how students choose to meet the Oral English Competency. There are two ways students may satisfy the Oral English Competency:

1. **Earning a grade of C (2.0) or better in one of the following courses:** COM 101, 267, 269, 357, TAI 170, 302 (see course titles and descriptions below).

**OR**

2. **Earning a passing score on the Oral English Competency Examination.** The Oral English Competency Examination requires the development and delivery of a ten-to-fifteen minute public speech accompanied by a properly typewritten and detailed outline. The student delivers the speech, which is evaluated by a faculty member assigned to oversee the examination. Students receive written feedback, and students who receive unsatisfactory examination results will be allowed one retest. Students who fail twice are required to obtain a grade of C (2.0) or better in one of the Oral English Competency courses listed above.

**For Main Campus Students,** the Oral English Competency Examination is administered twice a year on the Friday prior to the beginning of the fall and spring semesters. Guidelines, registration materials, and other information can be obtained by contacting the Computer Based Testing Center ([https://www.cmich.edu/office\\_provoyst/AcademicAffairs/CBTC/Pages/default.aspx](https://www.cmich.edu/office_provoyst/AcademicAffairs/CBTC/Pages/default.aspx)) or call 989-774-1092.

**For Global Campus students,** the examination is administered five times a year. Information can be obtained by contacting the student's Academic Advisor or CMU Online at 888-688-4268.

**Oral English Competency Requirement for Non-native Speakers of English:** Students for whom English is not their native language may fulfill the Oral English Competency Requirement by earning a grade of C (2.0) or better in ELI 199 American Language for International Students: Speech Component. (See description below)

### Oral English Competency Courses:

The following courses are approved for Oral English Competency. TAI 170 is also approved for UP Subgroup I-B.

COM 101 - Introduction to Communication 3(3-0)  
 COM 103 - Oral Communication in the Online Environment 3(3-0)  
 COM 267 - Introduction to Debate 3(3-0)  
 COM 269 - Practicum in Debate/Forensics 2-8(Spec)  
 COM 357 - Public Speaking 3(3-0)  
 ELI 199 - American Language for International Students: Speech Component 3(3-0)  
 TAI 170 - Oral Interpretation of Literature 3(3-0)  
 TAI 302 - Voice and Diction 3(3-0)

(continued)

### **Additional Guidelines for the Competencies**

1. A student must meet the requirements in each of the competency areas described in the Undergraduate Bulletin under which the student graduates.
2. A student attempting to satisfy a specific competency requirement in a given academic year will use the method(s) and requirement(s) in their bulletin year.
3. A competency requirement in a specific area, once satisfied, remains valid until the student graduates.
4. If the chairperson of the department most directly concerned with a competency judges that a student has satisfied a competency requirement by means other than those described above, that chairperson will certify in writing to the Registrar that the student has satisfied the requirement. These competencies and departments include:
  - **Writing Competency** - Department of English Language and Literature;
  - **Oral English Competency** - Department of Communication and Dramatic Arts;
  - **Mathematics & Quantitative Reasoning Competency** - Department of Mathematics.